SILANTYEVA, N. I

USSR/Chemistry - Crystallization

Card 1/1

Pub. 151 - 5/36

Authors

Gorshteyn, G. I., and Silantyeva, N. I.

Title

Distribution of isomorphous and isodimorphous components between solid and liquid phases during crystallization with aqueous solutions. Part 2.— Equilibrium in certain systems with binary schoenite salt components

Periodical

Zhur. ob. khim. 24/1, 29-36, Jan 1954

Abstract

The equilibrium of CoSO, (NH,)2SO, - NiSO, (NH,)2SO, - H2O, CoSO, (NH,)2SO, - FeSO, (NH,)2SO, - H2O and FeSO, (NH,)2SO, - NiSO, (NH,)2SO, - H2O system, was investigated at 0 and 20° respectively. At 20° the first two systems were found to be perfectly ideal in the entire range of concentrations of both isomorphous components. The equilibrium values of the component distribution coefficients were established for several binary salt systems. Data on the characteristics of the third systems are included. Three references: 1-USA and 2-USSR (1933-1953). Tables; graphs.

Institution:

...

Submitted

June 8, 1953

SilANTYEVA, N.I.

WER/Chemistay - ' o'c

Card 1 /1 Tab. 12 - 1,7

Authors

: Gorshteyn, G. I., and Silantyeva, L. L.

Title

: Distribution of isomorphous and isodimorphous components between called and liquid phases during crystallization in aqueous solutions. Part 3. - Equilibrium in the $Co(NO_3)_2$ - Ni(NO₃)₂ -N₂O system at 20°. Zhur. ob. khim. 24/2, 201-203, Feb 1954

Periodical

Abstract

: Experiments were conducted to determine the equilibrium in a Co(NO₃)₂ - Ni (NO₃)₂ - H₂O system at 20°. The results obtained are tabulated. It was found that the components of the system are isodimorphous at the above mentioned temperature and two series of solid solutions are being formed in the system. It was established that the system remains ideal in each of the two zones of existence of a solid solution of specific structure. Three references: 2-USSR and 1-USA (1953 and 1954). Table; graphs.

Institution: Scientific Research Institute of Chemical Reagents

Submitted : June 8, 1953

I AM TERA TO A

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical B-8

在现代的主义,我们就是这种的,我们就是这种的人,我们就是这个人的人,我们就是这个人的人,我们就是这个人的人,我们就是这个人,我们就是这个人的人,这个人,这个人,

Analysis. Phase Transitions

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26160

: G.I. Gorshteyn, N.I. Silant'yeva Author

: Study of Distribution Regularities of Isomorphous Components Title

at Crystallization from Aqueous Solutions with Application of Radioactive Indicators. I. Study of Equilibrium in System Copper-Ammonium Aulfate - Zinc - Ammonium Sulfate -

Water with Application of Radioactive Isotopes Zn65 and Cu64

Orig Pub : Zh. obshch. khimii, 26, No 7, 1821 - 1826 - 19-17

Abstract : The equilibrium distribution of components between the so-

lid and the liquid phases in the system CuSO4 (NH4)SO4 -ZnSO_{l.} (NH_{l.})₂SO_{l.} - H₂) was investigated with the application of radioactive indicators Zn⁶⁵ and Cu⁶⁴. The equilibrium relative to both these salts was achieved in a thermostat stirring the solution energetically at 20 and 250. Contrarily to data obtained earlier (Hill and other, J.Amer. Che.

Soc., 1938, 60, 1099), it was established that the above

: 1/2 Card

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical B-8 Analysis. Phase Transitions

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26160

system was ideal in the whole range of concentrations of both the isomorphous components. The magnitude of the equilibrium factor of the distribution of the zinc salt in reference to the copper salt $D_{\rm Zn}/Cu$ is constant both in case of microconcentrations, as well as in case of macroconcentrations of the zinc salt and is 2.43.

Card : 2/2

AUTHORS:

Silantyeva, N. I., and Gorshteyn, G. I.

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TITLE:

Study of the Laws Governing the Distribution of Isomorphous Components during Crystallization from Aqueous Solutions with the Application of Radioactive Indicators. Part 2. Study of the Distribution of Components in the FeSO₄. (NH₄)₂SO₄. 6H₂O-ZnSO₄. (NH₄)₂SO₄. 6H₂O - H₂O System with the Application of the Radioactive Zn Indicator. (Issledovaniye zakonomernostey raspredeleniya izomorfnykh komponentov pri kristallizatsii iz vodnykh rastvorov s primeneniyem radioaktivnykh indikatorov. II. Issledovaniye raspredeleniya komponentov v sisteme FeSo₄. (NH₄)₂SO₄. 6H₂O - ZnSO₄. (NH₄)₂SO₄. 6H₂O - H₂O s primeneniyem radioaktivnogo indikatora ZnO₅.

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 14-19 (U.S.S.R.)

ABSTRACT:

Experiments were conducted at 0,10,20 and 30 with the radioactive ${\rm Zn}^{0.5}$ indicator to study the equilibrium distribution of ${\rm Zn}$ microconcentrations during the crystallization of a binary ferric and ammonium sulfate. The ${\rm FeSO}_4$. $({\rm NH}_4)_2{\rm SO}_4$. $6{\rm H}_2{\rm O}$ content in the crystal and solutions was determined by titration with a 0.1 n. potassium permangamate solution. The results given in Table 1 show that the magnitude of the equilibrium distribution coefficient

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Study of the Laws Governing the Distribution of Isomorphous Components during Crystallization from Aqueous Solutions with the Application of Radioactive Indicators

of the Zn mixture existing during the crystallization of FeSo₄. (NH₄)₂SO₄. 6H₂O varies little with temperature. The change is 4.7 at 0°, 5.0 at 10° , 4.3 at 20° and 30° .

The factors determining the entrapment of the admixtures during polythermal crystallization are explained as: the relative supersaturation of the solution at each moment of crystallization and the degree of crystallization of the basic substance toward the conclusion of the crystallization process. The presence of two wide ideality zones at the boundaries of the equilibrium diagram was established. The relation between the mean practical distribution coefficient of the micro-component was established for instances where the value of the practical differential distribution coefficient remains almost unchanged in the crystallization temperature range. The experimental results were

Card 2/3

Study of the Laws Governing the Distribution of Isomorphous Components during Crystallization from Aqueous Solutions with the Application of Radioactive Indicators

441

in conformity with theoretical data. The degree of concentration of Zn admixtures in solid phase and its reduction in the mother liquor during polythermal crystallization of FeSO $_4$. (NH $_4$) $_2$ SO $_4$. 6H $_2$ O from aqueous solutions were calculated under conditions identical to industrial processes.

Two tables, 2 graphs. There are 8 references, of which 7 are Slavic.

ASSOCIATION:

Institute of Chemical Reagents (Institut Khimicheskikh Reaktivov)

PRESENTED BY:

SUBMITTED:

May 20, 1955

AVAILABLE:

Card 3/3

CORSIDERI, G. I. and SILART YEWA, H. I. (IREA)

"The Use of Radioactive Isotopes in Crystallization and Precipitation Methods of Dealing With Problems of Purification of Inorganic Salts"

Jackges and Endiation in Chemistry, Collection of Papers of And All-Heim Sci. Mach. Somi. on Use of Redicactive and Stable Isotopes and Hadiation in Hadianal Sconomy and Science, Moscoy, Isd-vo- AN SSSE, 1958, 380pp:

This volume publishes the reports of the Chemistry Section of the Rai AU Sai Warn Conf on Use of Radioactive and Stable Isolopes and Radiation in Sairna and the Matical Economy, speakered by Assa. Sai USER and Main Admin for Stillization of Abords Energy under Council of Ministers (1984, Noneco, 4-12 April 1997.

CORSETEYN, G. I.; SILANTIYEVA, M.I.; Prinimala uchastiye: KIFAROVA, I.A.

Distribution of the isomorphic components during crystallization from agueous solutions. Report No. 3: Study of the system (MH₄)₂Co(SO₄)₂ 6H₂O - H₂O with the use of radioactive tracers. Trudy IREA no.22:3-7 '58. (Cobalt compounds) (MIRA 14:6) (Crystallization)

GORSHTEIN, G.I.; SILANT'YEVA, N.I.; Prinimala uchastive: KIFAROVA, I.A.

Bistribution of the isomorphic components during crystallization from aqueous solutions. Report No. 5: Study of the system
PSO, - ZnSO, - H₂O with the use of redicactive tracers.

Trudy IREA no.22:12-17 '58.

(Iron sulfate)

(%inc sulfate)

(%inc sulfate)

(Crystallization)

SILANT'YEVA, N. I.: Master Chem Sci (diss) -- "Experimental investigation of the laws of distribution of isomorphic components in certain water-salt systems".

Moscow, 1959. 15 pp (Acad Sci USSR, Inst of Geochem and Analytic Chem im V. I.

Vernadskiy), 160 copies (KL, No 16, 1959, 106)

ANKINOVICH, Ye.A.; SILANT'YEVA, N.I.

Gowceixite from vanadium-bearing clay-anthraxolite schists of
Kazakhstan. Izv. AN Kazakh. SSR. Ser. geol. no.3:78-81 '59.

(MIRA 13:12)

SKVORTSOVA, K.V.; KOPCHENOVA, Ye.V.; SILANT'YEVA, N.I.; SIDORENKO, G.A.; DARA, A.D.

TURS STATE THE TRANSPORT AND THE TRANSPORT TO THE TRANSPORT OF THE TRANSPO

Conditions governing the formation of umohoite in uranium-molybdenum deposits of the U.S.S.R. Geol.rud.mestorozh. no.5:53-63 S-0 °61. (MIRA 14:9)

KOPCHENOVA, Ye.V.; SKVORTSOVA, K.V.; SILANT'YEVA, N.I.; SIDORENKO, G.A.; MIKHAYLOVA, L.V.

Mourite, a new supergene uranium-molybdenum mineral. Zap. Vses.
min. ob-va 91 no.1:56-71 '62. (MIRA 15:3)
(Mourite)

SKVORTSOVA, K.V.; SIDORENKO, C.A.; DARA, A.D.; SILANT'IEVA, N.I.; MEDOYEVA, M.M.

Yemolite, a new molybdenum sulfide. Zap. Vses. min. ob-va 93 no.48436-443 *64 (MIRE 18:2)

VASSERMAN, I.M.; SIIANT'YEVA, N.I.

Preparation of dicalc.um phosphate of stoichiometric composition. Zhur. neorg. khim. 10 no.6:1320-1327 Je 165.

(MIRA 18:6)

43291

8/135/62/000/012/001/015 A006/A101

1,2380

AUTHORS:

Nikiforov, G. D., Candidate of Technical Sciences, Silant'yeva,

S. A., Engineer

TITLE:

Nucleation and development of pores in welding AMr6 (AMg6) alloy

PERIODICAL: Svarochnoye proizvodstv), no. 12, 1962, 1 - 5

TEXT: Information is given on results of investigating pore formation in welding beads onto AMg6 alloy plates with a wire of the same material and of pure aluminum. It was found that pures are formed in welding the AMg6 alloy, as a result of a developed interaction between the liquid metal and the moisture, a result of a developed interaction between the liquid metal and the moisture, a result of a developed interaction between the liquid metal and the moisture, a result of a developed interaction between the liquid metal and the moisture, a result of the oxide film; these particles are present in contained in the particles of the oxide film, the effect of moisture may be inhibited until completed ness of the oxide film, the effect of moisture may be inhibited until completed ness of the oxide film, the effect of moisture may be inhibited until completed ness of the oxide film, besides pores of regular shape, which have partially floated up to the surface, cavities of irregular, branched shape are tially floated up to the surface, cavities of irregular, branched shape are formed as a result of displacement of eutectic by liberated hydrogen. Bulging formed as a result of displacement of eutectic by liberated hydrogen.

Card 1/2

NIKIFOROV, G.D., kand.tekhn.naul; SILANT'YEVA, S.A., inzh.; KAINOVA, G.Ye., inzh.

Measures to control porceities in welding the AMg6 alloy. Svar. proizv. no.1:26-29 Ja *163. (MIRA 16*2)

1. Moskovskiy aviatsionryy tekhnologicheskiy institut.
(Aluminum-ranganese alloys-Welding)

PODRABINEK, P.A.; SILANT YEVA, S.M.

Evaluation of Valdman's cup endothelial test (concerning the article of K.V.Istomina and V.A.Neiman published in "Laboratornoe Delo", no.6, 1959). Lab. delo 7 no.3:26-27 Mr '61. (MIRA 14:3)

l. Istomkinskaya bol'mitsa (glavnyy vrach D.D.Przhedetskiy), Noginsk. (LEUCOCYTOSIS) (RHEUMATIC FEVER)

GOL'DBERG, O.D., kand.tekhn.nauk; SILANT'YEVA, T.I., inxh.

Reliability of electrical equipment. Elektrotekhnika
36 no.12:58 D *65. (MIRA 19:1)

SILANT'YEVA, V. A.

"Skeletal Changes in a Child's Stump During the Growth Period." Cand Med Sci, Gor'kiy Medical Inst, Gor'kiy, 1953. (RZhBiol, No 5, Nov 54)

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Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

SILANT'YEVA, V.A.

Significance of osteoplastic method of amputation in children. Khirurgiia no.4:47-52 Ap '54. (MLRA 7:6)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (1.0. zav. kafedroy dotsent V.P.Aratskiy, nauchnyy rukovoditeli prof. V.M.Durmashkin) Gorikovskogo meditsinskogo instituta imeni S.M.Kirova.

(AMPUTATION,

*osteoplastic technic in child)

L 3555-66 EWT(m)/EWP(j) AGGESSION NR: AP5024402	Semenova, T. S.; Silant	UR/0286/65/000/ULS	3/
AUTHORS: Borodkin, V. F.;	Semenova, T. S.; Silant	yeva, V. C.	10
TITLE: A method for obtaini	ng colored polystyrole	Class 39, No. 17341	op O
SOURCE: Byulleten' izobrete	niy i tovarnykh znakov,	no. 15, 1965, 81	
TOPIC TAGS: polystyrole, po	lymer, styrole, monomer,	acryl	
			A
polystyrole by polymerizing active group instrumental in	styrole in the presence the formation of chemic ter of polymerization. T	al union between the	pigment ;
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ABSTRACT: This Author Certipolystyrole by polymerizing active group instrumental in and the monomer in the procematerials for dying polystyr ASSOCIATION: Ivanovskiy khi of Chemical Engineering) SUBMITTED: O5Jun64	styrole in the presence the formation of chemic ess of polymerization. T cole, pigments of the acr	al union between the broaden the assort ylic active group and	prigment control of the used.

AFANAS'YEVA, Ye.Yu.; SILANT'YEVA, Ye.A.; FINOGENOV, S.N.

Evaluation of acute cerebrocranial injury according to data from heat, plethysmographic, and electrocardiographic tests. Vop.neiro-khir. 19 no.2:39-47 Mr-Ap 155. (MIRA 8:7)

1. Iz Instituta neyrokhirurgii Ministerstva zdravookhraneniya USSR. (HEAD, wounds and injuries,

MCG, heat test & plethysmography in)
(ELECTROCARDICGRAPHY, in various diseases, head inj.)

(PLETHYSMOGRAPHY, in various diseases,

head inj.)

(WOUNDS AND INJURIES,

head, ECG, heat test & plethysmography in)

SILANT'YEVA, Ye.A.

Functional state of the cardiovascular system in nonpenetrating craniocerebral injuries under clinical and experiemental conditions [with summary in English]. [iziol.zhur. [Ukr.] 3 no.2: 60-68 Mr-Ap '57. (MIRA 10:6)

 Ukrains'kiy naukovo-doslidniy institut meyrokhirurgii, (CARDIOVASCULAR SYSTAM) (BRAIN--WOUNDS AND INJURIES)

SILANT'YEVA, Ye.A., 2 and led Sci-(disc) "Functional state of the cardio-vencular system in a closed cerebro-creatal trauma in the clinic and in an experiment." Hiev, 1950. 12 pp (Fiev Order of labor Red Benner State Fed Inst is Acad A.A. Begonolete), 200 copies (HI, 20-50, 115)

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APPROVED FOR RELEASE: 08/23/2000

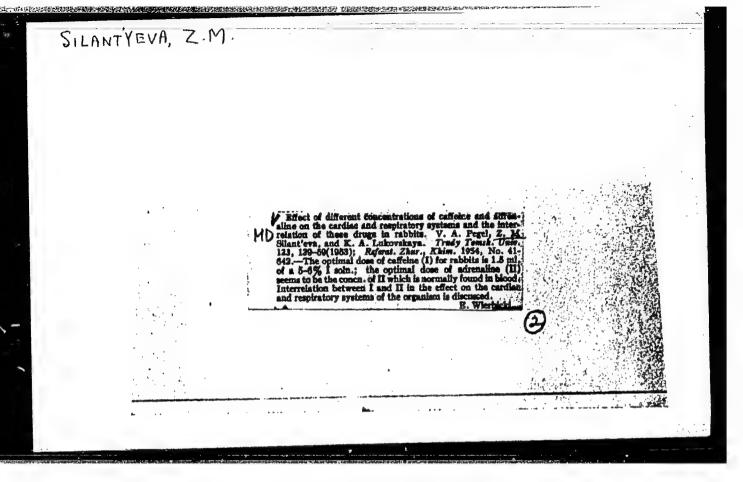
BAYEVA, I.Ye.; SILANT'YEVA, Ye.V.; GAZAL'YAN, S.I.; KRASKOVA, N.I.; SHAYKHULINA, N.N.; SINEL'HIKOV, H.A.

Use of a decoction of Alhagi camelorum for the treatment of dysentery. Zdrav. Turk. 3 no.3:46-48 My-Je 59. (MIRA 12:11)

1. Is kafedry mikrobiologii (sav. - dotsent A.I.Koval'chuk)
Turkmenskogo meditsinskogo gosudarstvennogo instituta im. I.V.
Stalina i infektsionnoy bol'nitsy Leninskogo rayona Ashkhabada
(glavnyy vrach - I.Ye.Bayeva).

(DYSENTERY)

(ALHAGI CAMELORUM--THERAPEUTIC USE)



SILAR, Frantisek, inz.

Possibility of increasing the mechanization in measuring points of the field for technical economic mapping. Good kart obzor 10 no.9/10:213-216 0 $^{1}64$

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SILAR, Frantisek, inz.

The MOM Te-k 1 coordinate theodolite. Geod kart obzor 11 no.3: 68-69 Mr '0).

1. Research Institute of Geodesy, Topography, and Cartography, Prague.

ACC NR: AP6004790 (/ 6/	SOURCE COI	DE: CZ/0024/65/000/002/0048/0049	
UTHOR: Silar, Frantise		i ·	
RG: Research Institute	of Geodesy, Topography and	Cartography, Prague (Vyzkumny	
istav geodeticky, topogra		22	
TITLE: Mechanized hydrau		R	
	rtografic cy obzor, no. 2, 1		
	quipment, engineering machin		
ARSTRACT: The article by	riefly describes a complete	ly mechanized hydraulic drill	
designed in Czechoslovaki on a truck. Orig. art. l	ia: it weighs about 1000 kg	and is intended to be mounted	
designed in Czechoslovaki on a truck. Orig. art. l	ia: it weighs about 1000 kg	and is intended to be mounted	
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Jengin vroin, Gend and absorption of a 165.

Linearch institute of Geodesic, Supegraphy, and Centernation france.

STLAR, J.

"Determination of the planned structure of a herd of cattle in the long-range as well as annual plans." P. 279

SBORNIK. RADA ZEMEDELSKA EKONOMIKA. Praha, Czechoslovakia; Vol. 32, No. 4, April, 1959

Monthly list of East European Accession Index (EEAI), Library of Congress, Vol. 8, No.7, July, 1959
Unclas

CIA-RDP86-00513R001550530012-9 "APPROVED FOR RELEASE: 08/23/2000

CZECHCSLCVAKIA/Cosmochemistry - Geochemistry - Hydrochemistry.

: Ref Thur - Khimiya, No 9, 1958, 28324 Abs Jour

: Silar, J. Author

: Hydrogeological Conditions at the Sulfur Springs in Inst

Title Velke Losinach in Moravia.

: Univ carolina Geol, 2, No 1, 25-43 (1956) (in Czech with Orig Pub

summaries in German and Russian)

: It appears that in Czechoslovakia resorts have been es-Abstract

tablished at most of that country's mineral springs. The oldest of these resorts is that of Velke Losinach in Moravia where hydrogeologic work has been done on a number of projects designed to assure a more rational utilization of the mineral waters. The sulfurous low-mineral springs of Velke Losinach are the only mineral springs in the Czech massif containing a larger percentage of

H2S and H2SiO3. The mineral content of the waters is

Card 1/3

CZECHCSLOVAKIA/Cosmochemistry. Geochemistry. Hydrochemistry.

D.

Abs Jour

Ref Zhur - Khimiya, No 9, 1958, 28324

250-310 mg/kg; the temperature of the two warm springs Elishka and Maria is 270, while the temperature of the cold springs Karel and Maria Theresia is 10.70. The resort is situated on the alluvial cone of the Desna River in Northern Moravia. The mineral springs are related to the complex of metamorphic rocks of the Vysokiy Esenik which is complicated by tectonic folds. The sulfur springs are interstitial waters which come to the surface along a four-kilom, stretch of the river valley. At the resort the flow of the commercially exploited warm springs is 118 liters/min. The flow of the cold springs is insignificant. The chemical composition of the cold and of the warm springs is identical. The mineral waters reach the surface from a depth of about 1,000 m in connection with the discharge [sic] in the overlying alluvial deposits (TN: sentence appears garbled). Earlier it was thought that the H2S in the water is of

Card 2/3

31/

SILAR, J.; NAPRSTEK, V.

A contribution to the stratigraphy and facial evolution of the Cretaceous near Neratovice and Labem. p. 137. (Casopis Pro Mineralogii A Geologii, Vol. 2, no. 2, 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EFAL) IC, Vol. 6, no. 10, October 1957. Uncl.

CZECHOSLOVAKIA/Cosmochemistry. Geochemistry. Hydrochemistry.

D.

Abs Jour

: Ref Zhur - Khiriya, No 2, 1959, 4241

Lathor

: Silar, J.

Inst Title

On the Presence of Alkali Chloride Mineral Waters in the Banks of the Reservoir on the Vach River in the Hositsa.

Orig Pub

: Casop Mineral a Geol. 2, No 4, 422-436 (1957) (In Czech

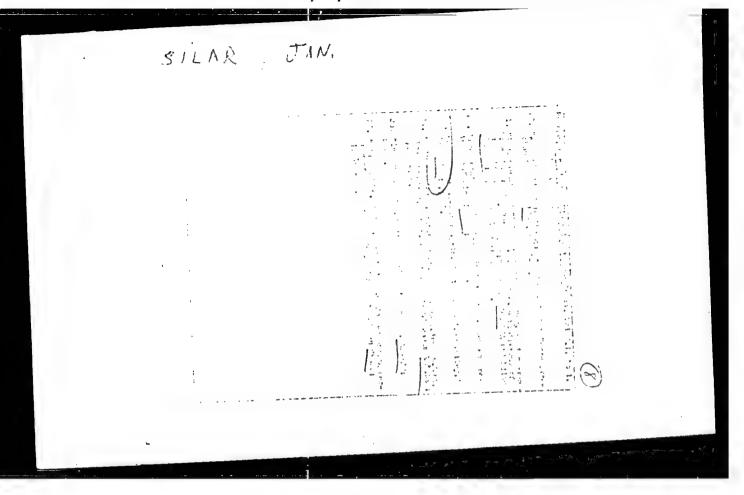
with a German summary)

Abstract

During the construction of the dam on the Vach River in Mositsa near Pukhova in Western Slovakia, a number of sources of an alkali chloride mineral spring rich in I were discovered. One liter of water contains (in mc/liter): Na 4 K, 3337; Ca, 272; Mg, 151; Cl, 710; Soh, 30.5; HCO₃, Sll3.4; free CO₂, 2640. The temperature of the water is 9.50. In view of the aggressiveness of these waters, hydrogeological investigations were undertaken and it was shown that a lowering of the water table was feasi-

ble. - V. Konshin

Card 1/1



Contribution to the information on the development of mineral spring systems. Shor gool ved 1:59-74 164.

1. Chair of Hydrogeology and Engineering Geology, Faculty of Natural Sciences, Charles University, Prague.

STLAR, Josef, inz.

Symposium on industrial fertilizers. Vest ust zemedel 10 no.8:
293-299 '63.

1. Ustredni vyzkumny ustav rostlinne vyroby, Praha - Rusyne.

SILAR, J.

Direction scintillation detector and its application in medicine.

P. 25, (Jaderna Energie) Vol. 3, no. 1, Jan. 1957, Prada, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 Nevember 1957

SILAR, Josef

Direction scintillation detector and its use in medicine. Jaderna energie 3 no.1:25-29 Ja *57.

1. Vyzkumny ustav pro elektrotechnickou fysiku, Praha.

Detection of alpha particles by a scintillation detector.

Jaderna energie 3 no.7:211-215 J1 '57

1. Vyzkumny ustav pro elektrotechnickou fysiku, P.aha.

Silar,

CZECHOSLOVAXIA/Electronics - Factocells and Semiconductor Devices H-8

Abs Jour : Rof Zhur - Fizike, No 10, 1958, No 23382

: Silar Josef, Novekove Olga

: Higher Institute om Electrotechnical Physics, Frague, Author

: Study of the Integral and Local Sonsitivity of Fhotocathodes Inst Title

and their Influence on the Horizontal Fortion of the Char-

nctoristic of a Scintillation Datactor.

Orig Fub : Caskosl. casop. fys., 1957, 7, No 5, 582-589

Abstract : Rosults are reported on the measurement of the integral sensitivity, sensitivity in theblue region of the spectrum (so-called "blue" sensitivity), the dependence of the out-put current on the position of the light probe on the cathodo for photomultipliors types RCA-5819, FEU-19 (new and old models), and photomultiplier 61 FK 411 of Gzechoslovak make. An investigation was made of the influence of the above paremeters on the shape of the curve that represents the dependence of the number of pulses per minute on the voltage

: 1/2 Card

CIA-RDP86-00513R001550530012-9" APPROVED FOR RELEASE: 08/23/2000

CZECHOSLOVAKIA/Nuclear Fhysics - Installations and Instruments.

Methods of Messurement and Research.

: Ref Zhur - Fizika, No 6, 1959, 12274 Ass Jour

Silar, Josef., Novakova, Olga Author

Properties of Scintillation Counters with NaI (T1) Inst Title

Crystals.

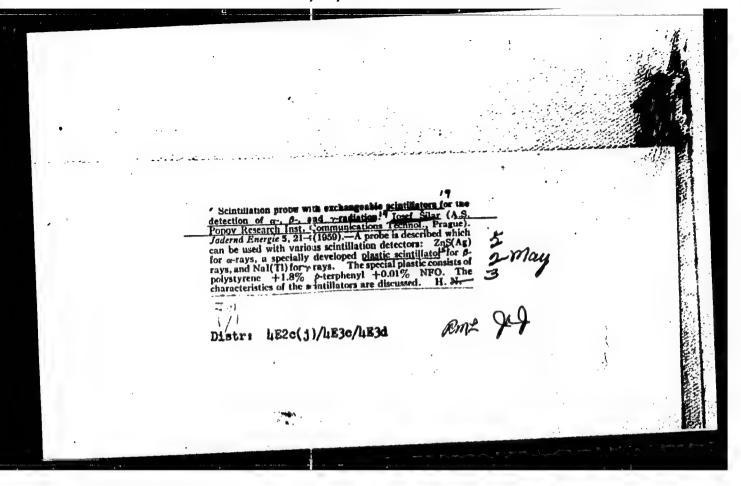
Jaderna energ.e, 1958, 4, No 5, 122-127. Orig Pub

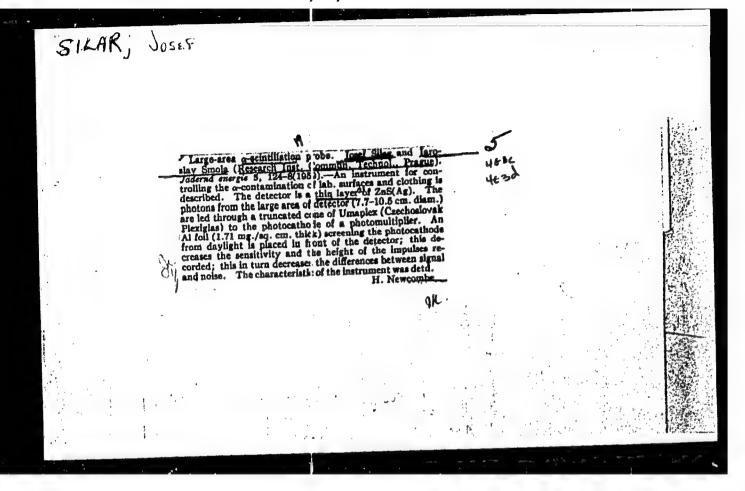
: Description of the basic parameters of scintillation Abstract

counters with NaI (T1) crystals. The lengths and the slope of the plateau are determined, along with the background, ratio of signal to background, resolving power, and so on. The measurement was carried out with the photomultipliers RCA 5819 and FEU-19 with NaI (T1) crystals manufactured by the Institute of Electrotechnical Physics

in Prague.

Card 1/1





Silli, J.

Measurement of relative efficiency of scintillators by pulse methods. r. 309

JADERIA EURROIE. (Ministerstvo energetiky) Praha, Gzeckosloviakia Vol. 5, nc. 9, Sept. 1959

Monthly List of East European Accession, (EAI), LC, Vol. 8, No. 12, Dec. 1959 Uncl.

SILAR, Josef

Scintillation detectors. Pokroky mat fyz astr 5 nc. 1:65-74. '60

1. Tesla-Liberec, Vyzkumny zavod Premysleni u Prahy.

80494 cz/4-60-2-9/54

21.5200

AUTHOR: TITLE:

Scintillation Detectors and Their Application

Nova Technika, 1960, No. 2, pp. 64 - 68

The author gives a general review on the application of scintillation The importance ascribed to these devices was shown in the lectures read at the Výzkumný závod Přemyšlení (Research Plant at Přemyšlení) and at the Conference PERIODICAL: of the Dosimetrická sekce VTS (Dosimetric Section of the Scientific Technical Society) on May 22, 1959. Introductory, the author describes and gives a schematic diagram (Figure 1) of a scintillation detector, based on the suitable connection TEXT: between a scintillator, a multiplier, a photo-cathode, an amplifier, a discriminator, and a registration device. A historical negrow follows containing data on the between a scintillator, a multiplier, a photo-cathode, an amplifier, a discriming and a registration device. A historical review follows, containing data on the development of scintillation detectors. development of scintillation detectors, of new luminescent materials used in detection of beta and gamma rays, of artificial naphtalene crystals, of anthracene detection of Deta and gamma rays, of artificial naphtalene crystals, of artificial anorganic crystals (for example, sodium iodide activated crystals, of artificial anorganic crystals (for example, sodium iodide activated crystals) by thallium and cesium iodide), of a series of organic luminescent substances solved in organic liquids or in plastic substances. Parallel to this photo multipliers

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Scintillation Detectors and Their Application

were developed. A significant increase of the detecting efficiency at gamma radiation is the most important practical advantage of scintillation detectors; the efficiency is 30 - 60 times higher compared to the GM type counters. Photograph 2 shows a scintillation detector for gamma radiation, developed and produced by the Research Plant at Premysleni. Scintillation detectors with a probe of high detecting efficiency for gamma radiation are applied in the following fields: a) Observation of the function of the thyroid gland using the radioactive isotope iodine 131 (Photograph 3 shows the "Scintigram" of the distribution of radioactive iodine in a healthy thyroid gland (a) and in a thyroid gland with tubercular struma with hyperfunctional tubercle (b); b) Localization of cerebral tumors by means of diiodo fluorescein using a directional scintillation detector with a means of directional scintillation lead-covered probe (Figure 4 shows schematic sections of directional scintillation detectors equipped with a cylindrical opening (a), with a focusing arrangement (b), and with a conical opening (c)); c) Localization of metastasis in the case of thyroid gland cancer using radioactive iodine; d) Observation of the circulation of blood by means of radioactive sodium or chromium; e) Prospecting of uranium or thorium beds; f) Exploration of rock-compositions in the course of drilling activities; g) Prospecting crude oil etc. For the detection of extremely low gamma radiation scintillation detectors with large NaI (T1) crystals have been

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Scintillation Detectors and Their Application

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developed, equipped with a cylindrical opening in the direction of the axle (Photograph 5 shows a so-called fountainous scintillation detector). A precise detection of gamma rays of a radioactivity of 10-10 Curie in one-minute measuring intervals is made possible; the device is applied in detecting the radioactivity of blood, urine etc. A description of various devices for the measuring of gamma radiation, developed at the laboratories of the Universities of Los Alamos and Harwell, follows. Small sized so-called needle-detectors are applied in the determination of mammary tumor, using radioactive phosphorus P-32. In addition scintillation detectors serve for the protection of workmen against alpha-radiation; in accordance with the regulations concerning working places exposed to radioactive substances the contamination of the 1st and 2nd class working places should not surmount the quantity of 23 disintegrations per min/cm2. Large-area scintillation detectors are suitable for the testing of working places with regard to an alpha ray contamination; they are equipped with a zinc-sulphide layer activated by silver (see Photograph 6). So-called windowless scintillation detectors with a detecting efficiency of 50% are applied for detection and spectral analysis (see Photograph 7). Scintillation detectors are also used in detection of beta isotopes C-14, S-35, H-3. The photomultiplier's noise impulses, deteriorating the performance

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Scintillation Detectors and Their Application

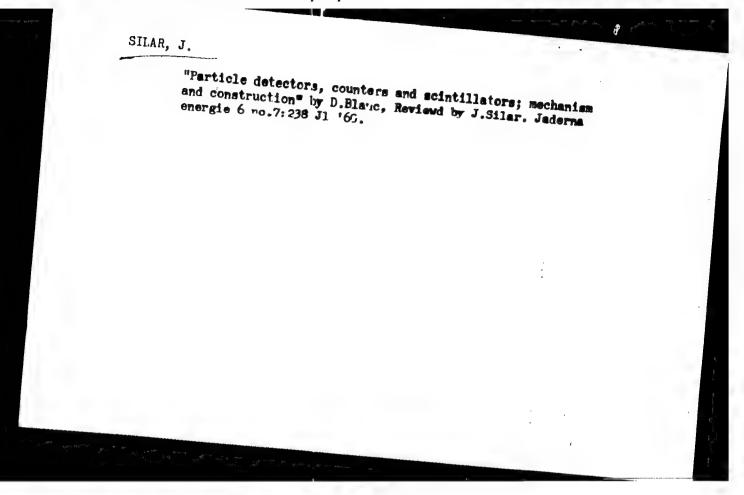
80494 CZ/4-60-2-9/54

of the device, may be eliminated by cooling of the photo cathode, or by a coincident arrangement. Thus an effect of about 70% may be obtained detecting the isotope C-14, whilst the GM counter had a detection efficiency of some percents only. There are 2 diagrams, 5 photographs and 4 Czech references. ASSOCIATION:

Tesla-Liberec, Výzkumný závod Přemyšlení (Tesla-Liberec Plant Research Plant at Přemyšlení).

Card 4/4

CIA-RDP86-00513R001550530012-9" APPROVED FOR RELEASE: 08/23/2000



9.6150 26.2190 Z/038/60/000/007/004/006 A201/A026

AUTHORS:

Šilar, Josef; Pavliček, Zdeněk

TIPLE:

Newly Developed GM Counter Types in the CSR

PERIODICAL: Jaderná energie, 1960, No. 7, pp. 240 - 243

TEXT: Until 1960, the Tesla National Enterprise in Vrchlabi produced the following GM counter types: GM 20/40 A for the detection of -radiation; GM 30/50 B for the detection of -radiation; GM 30/300 K and GM 40/600 K for the detection of cosmic radiation. In 1960, the following six new types were introduced: 1) GMT 30/30 AB: 2) 30/50 A (shown in Figure 1); 3) GMT 20/100 GW: 4) GMT 16/50 BlH (shown in Figure 2); 5) GMT 20/100 GH; 6) GMT 20/100 XH and GMT 20/100 XH (shown in Figure 3). The meaning of the type designation is as follows: The first figure gives the cathode diameter in millimeters; the figure in the denominator gives the cathode length in millimeters; the letters indicate the type of radiation for the detection of which the particular counter is designed: A - for C -radiation; B - for -radiation; C - for T -radiation; K - for cosmic radiation; N - for neutron detection; X - for Roentgen radiation. The letter H in the last position indicates

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Newly Developed GM Counter Types in the ČSR

a halogen counter. If the letter indicating the type of radiation is followed by a figure (e.g. 1), it indicates a modification of the basic type. This modification usually consists in a different type of gas filling of the tube. The letter W means that the cathode is made of tungsten. The following are the specifications, description and use of the new GM counters: 1) GMT 30/30 AB is a high-voltage, tell-type tube with a mica front window. The tube is of glass protected by a PVC case, with a four-pin base. It is destined for low-level/3 and condition measurement. Specifications: Filling - helium + organic quenching medium; threshold voltage - 1250 v; minimum plateau - 300 v; maximum relative plateau slope - 5% for 100 v; window mass - 1 - 2 mg/cm² (precise value will be stated in the testing report); background in Pb shield - maximum 30 pulses/min; Service life - 100 pulses; effective range of the active region - 30 mm; cathode diameter - 30 mm; weight - 75 g; temperature range - from -10 to +30°C. This counter replaces the following counter types. VA-Z 310 (GDR), T 30 BFL 29 (USSR), and VAT-25 (Poland). The tube is filled to a pressure of about 700 mm Hg causing a dead time of about 300 - 400 place. - 2) The 30/50 A counter is a high-voltage tube with a mica window, destined for use as a proportional counter for

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Newly Developed GM Counter Types in the ČSR

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the detection of $\mathscr L$ -radiation with an energy of 3 Mev. It is insensitive to β and & -radiation. The tube is of glass, protected by a "novodur" case with a coaxial base. Specifications: Filling - neon + organic quenching medium; operating voltage - 1,200 v; minimum length of plateau at a 30 mv input sensitivity of the amplifier - 150 v, maximum relative plateau slope - 5% for 100 v; window mass - 1 - 2 mg/cm²; service life - 109 pulses; window diameter - 30 mm; cathode diameter - 32 mm; length of the active region - 50 mm; overall length -110 mm; temperature range - from -20 to :40°C. This counter is similar to the VA-2-520 counter, produced by the firm Vakutronik (GDR). - 3) GMT 20/100 GW is a high-voltage, all-glass tube with a tungsten cathode, enclosed in a metal case with a four-pin base. It is especially suitable for medical and technical applications. Its large overload capacity and long service life permit its use for long-term, high-level measurements. Specifications: Filling - argon + organic quenching vapors; threshold voltage - 1,100 v; minimum plateau - 200 v; maximum relative plateau slope - 5% for 100 v; background in Po shield - 60 counts/min; background without shield - 200 counts/min; service life - 108 counts; cathode diameter - 20 mm; effective length of the active region - 80 mm; overall length 150 mm; overall diameter - 25 mm; weight - 50 g. This counter replaces the

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G 10 Pb counter produced by the 20th Century Electronics and the BC-13 and BC-14 counters produced in the USSR. - 4) OMT 16/50 PiH is a low-voltage, halogen tute of all-glass design meant for the detection of 7 -radiation and hard /3 radiation with an energy of 0.3 Mev. It is designed for use with portable, battery-fed indicators. The leads have the shape of end-caps. Specifications: Filling - neon + halogen; threshold voltage - 360 v; minimum plateau length -100 v; maximum relative plateau slope - 12% for 100 v; background in a 5 cm Pb shield - 60 counts/min maximum; service life - 5.109 counts; effective length of the active region - 50 mm; cathode diameter - 16 mm; overall length 92 ± 2 mm; overall diameter - 16 ± 1 mm; temperature range - from -40 to +50°C; wall mass - 75 mg/cm² maximum; weight - 6 g (Abstractor's note: Evidently a misprint). - 5) GMT 20/100 GH is a low-voltage, halogen tube of all-glass design, enclosed in a metal case with a four-pin base. It is designed for use with portable, battery-fed instruments and, owing to its high service life, it is especially suitable for long-term measurements of high level radiations within a wide temperature range. Specifications: Filling - neon + halogen; threshold voltage 400 v; minimum plateau length - 200 v; maximum relative plateau slope - 10%

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Newly Developed GM Counter Types in the ČSR

for 100 v; background in Pb shield - 60 counts/min; service life - 5.109 counts: effective length of the active region - 100 mm; cathode diameter - 20 mm; overall length - 170 mm; overall diameter - 25 mm; weight - 60 g. This tube is similar to the G5H and G10H counters produced by the 20th Century Electronics and to the MX 120/01 counter produced by Mullard. - 6) GMT 20/100 XH is a halogen tube of bell design with a front mica window of a mass 2 - 3 mg/cm². The glass tube is enclosed in a metal case with a four-pin base. It is meant for measurement of the Roentgen radiation within the wave range from 1.2 to 2.5 A. Specifications: Filling - argon + halogen; threshold voltage - 1,050 v; minimum plateau length - 150 v; maximum relative plateau slope - 10% for 100 v; window mass -2 - 3 mg/cm²; background in Pb shield - 60 counts/min; service life - 10⁹ counts: effective length of the active region - 100 mm; cathode diameter - 20 mm; cverall length - 170 mm; overall diameter - 25 mm; weight - 50 g. This counter replaces the MX 118 counter produced by Mullard. - GMT 20/100 X1H has the same geometric and electrical parameters as the GMT 20/100 XH. The only difference lies in the gas filling. In order to achieve detecting capacity in the range of the wavelengths from 0.5 to 0.86 k, this counter is filled with krypton and halo-

Card 5/6

X/038/60/000/007/004/006 A201/A026

Newly Developed GM Counter Types in the ČSR

gen gases. This tube replaces the MX 122 counter produced by Mullard. (Editor: 0. Gilar). There are 3 photographs and 7 Czech references.

ASSOCIATION: Tesla-Liberec, výzkumný závod Přemýšlení u Prahy (<u>Tesla-Liberec</u>, Research Plant "Fřemýšlení" near Praha)

X

Card 6/6

Z/038/60/000/011/002/006 A201/A026

11.5200 AUTHORS:

Nováková, Olga; Šilar, Josef

TITLE.

Detection of Extremely Low Gamma Activities With Scintillation De-

PERIODICAL:

Jaderná energie, 1960, No. 11, pp. 365 - 378

TEXT: The article describes the basic parameters of scintillation detectors used for the detection of extremely low gamma activities. The most important prerequisites of such detectors are: (1) maximum sensitivity; (2) optimum geometric efficiency between the measured sample and the detection volume; (3) low background and minimum background fluctuation; (4) design that will permit measurements of samples with sufficiently large volume with good geometric efficiency. Furthermore, the detector sensitivity, detector sensitivity threshold, and factors influencing its long-term stability are defined, and the relations for the measurement-time calculation for a desired accuracy, for the evaluation of the detectors in relation to their low-gamma-activity measuring capability, and for the setting of the optimum detector parameters are derived on the grounds of statistical considerations. Four types of scintillation detectors for measuring liquid gamma

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Z/038/60/000/011/002/006 A201/A026

Detection of Extremely Low Gamma Activities With Scintillation Detectors

sources are described, namely the well-type, ring-cell type, beaker-type, and immersion-type. Their respective schematic diagrams are shown in Figure 8. The well-type scintillation detectors feature the highest sensitivity and a nearly 4%--geometry. Their disadvantage is that the volume of the well restricts the volume of the measured samples to about 5 cm3. The ring-cell type detectors have a considerably poorer geometric efficiency, by their design permits measurements of samples up to 1 liter. Their disadvantage is also that the ring-cells have to be custom-made for each crystal and lead-shield size. The beaker-type has a still poorer geometric efficiency than the ring-cell type detector, but standard beakers can be used. Low, large-diameter crystals are best suitable for this type. The immersion-type detectors have a geometric efficiency similar to that of the ring--cell type and are especially suitable for measuring gamma activities in large water reservoirs. The Tesla-Liberec n.p. - Výzkumný závod (Tesla-Liberec, National Enterprise, Research Plant) in Fremysleni has designed the following 4 types of low-activity scintillation detectors: (1) A well-type scintillation detector (Figure 9). It uses a probe with a 61 PK 411 photomultiplier tube and a cathode follower, both produced by the plant, and an NaI (T1) crystal, 50 mm high, 45 mm in diameter with a well 37 mm deep, 19 mm diameter, capable of accomodating a 5 cm3-sam-

Card 2/7

Z/038/60/000/011/002/006 A201/A026

Detection of Extremely Low Gamma Activities With Scintillation Detectors

ple. The probe is enclosed in a pear-shaped lead shield, which was originally designed for a directional scintillation counter also produced by the plant. The electronic part comprises a high-voltage power supply, a pulse amplifier, a discriminating circuit, and an evaluation unit. Samples are filled in mass-produced vials, which are then inserted into the crystal well. (2) A ring-cell type detector using a standard NaI (T1) crystal, 25 mm high, 33mm in diameter, and an "Umaplex" ring-cell with a maximum capacity of 40 cm3. (3) A beaker-type detector (Fig. 15). It uses a standard NaI (T1) crystal, 25 mm high, 38 mm in diameter. Standard "Sial 150" beakers are used which are placed directly on the scintillator. The lead shield, probe design and electronics are similar to those of the well-type detector. (4) A beaker-type detector with a large NaI (T1) crystal (Fig. 16). It consists of a lead casing, 270 mm high, 45 mm thick, in which a probe is mounted with a 61 PK 421 photomultiplier and an NaI (T1) crystal, 45 mm high, 90 mm in diameter, grown in the chemical section of the plant. Radioactive solutions are filled either into a mass-produced glass vessel, 120 mm in diameter, or into a 0.5 liter bottle, 80 mm in diameter. Use of 2,000 cm3 bottles is also possible. From theoretical analyses and from experimental results it can be stated that well-type, scintillation detectors can detect a minimum total activity of the order of 10-12c, Card 3/7

89**373** Z/038/60/000/011/002/006 A201/A02E

Detection of Extremely Low Gamma Activities With Scintillation Detectors

and the large-volume beaker-type detectors can detect specific acitivities as low as 10-13 c/cm³. These values were established in measurements of Fe-59, which emits I gamma-quantum per decay. In order to obtain accurate results for other sources the instruments will have to be calibrated according to the investigated sources. The sensitivity threshold of the scintillation detectors for the majority of radioactive sources lies below the permissible values set forth by the Czechoslovak standard ČSN 34 1730 from 1956, for the concentration of radioactive substances in drinking water. (Editors: I. Bučina, Z. Spurný) There are 3 photographs, 15 figures, 15 tables and 11 references: 2 Czech, 2 German and 7 English.

ASSOCIATION: Tesla Liberec, n.p. - Výzkumný závod (Tesla Liberec, National Enterprise, Research Plant) in Přemýšlení

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L 26374-65 EWT(m) IJP(c)

ACCESSION NR: AT4049964 Z/2511/61/000/001/0401/0406

AUTHOR: Silar, J. (Ghtlar, I.) (Prague); Movakova, O. (Prague); Smola, J. /8

(Smola, I.) (Prague)

TITIE: Detection of low alpha-radiation activity by scintillation detectors B+1

SOURCE: Prague. Ceske vysoke uceni technicke. Prace. Ser. 6, no. 1, pt. 2, 1961, 401-406

TOPIC TAGS: radiation detection, alpha radiation, scintillation detector, natural radiation, zinc sulfide, decay series, uranium, thorium, uranium thorium decay series, pulse counter, photomultiplier

ABSTRACT: A study was made of several types of developmental and commercial powdered ZnS(Ag) produced in Czechoslovakia, and they were compared with samples of ZnS(Ag) produced abroad with a view to finding a detector of low alpha-radiation activity. A zinc sulfide with the lowest possible natural activity of alpha radiation, which is obtained by a content of uranium, thorium, and the members of their decay series, would be required. The parameters of scintillation detectors for alpha radiation which were measured on the developmental samples or on

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CIA-RDP86-00513R001550530012-9

L 26374-65

ACCESSION NR: AT4049964

samples from the verification series are given. The scintillation sonder were staged with type 61PK411 or type 61PK421 photomultipliers of <u>VUVET</u>, Prague, production. The estimates were made with a simple electronic device for scintillation detectors (of VZ-Industry production) and with a type <u>ZVII</u>, pulse counter. The background of the detector and the threshold sensitivity are given along with the properties of the α -detectors developed in Czechoslovakia. Orig. art. has: 4 tables and 1 formula.

ASSOCIATION: VZ-Premysleni (VZ Industry)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP, EC

NO REF SOV: 000

OTHER: 001

Card 2/2

EWT(m)/EWA(h) 33933-65 Z/2511/61/000/001/0407 ACCESSION NR: AT4049965 AUTHOR: Novakova, O. (Prague); Silar, J. (Shilar, I.) (Prague) extremely low activity in liquid TITIE: Detection of gamma and beta radiation samples SOURCE: Prague. Ceske vysoke uceni technicke. Prace. Ser. 6, no. 1, pt. 2, 1961 407-412 TOPIC TAGS: dosimetry, gamma radiation, beta radiation, radiation detection, low activity radiation, specific activity, low energy radiation ABSTRACT: The article reviews the requirements of a detector for accurate measurement of gamma and beta radiation of extremely low activity in liquid preparations. At the VZ Premysleni factory scintillation detectors have been developed for the measurement of samples of less than one-liter volume for gamma and beta rediation of medium and higher energies. On the basis of the results discussed and other experimental measurements made at the factory, it is concluded that scintillation detectors can be used for the direct detection of beta and gamma emitters of a specific activity of 10-9 c/1 in liquid samples. The required accuracy, of course,

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SILAR, Josef; NOVAKOVA, Olga

Gamma single-crystal scintillation spectrometer, its parameters and use. Jaderna energie 9 no.6:190-199 Je 163.

1. Tesla Pardubice, Vyzkumny zavod Premysleni.

VANAG, G.Ya.; SILARAYA, R. fa.

Interaction of the sthyl ester of chloroindandionecarboxylic acid with primary amines. Zhur.ob.khim. 26 no.1:68-74 Ja '56.
(MLRA 9:5)

1. Latviyskiy gosudarstvennyy universitet.
(Indandionecarboxylic acid) (Amines)

tion w.

"Preserving and Staining of Coprologic Smears by the Polyvinyl-Alcohol-Trichrome Method."

Pucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 8, No 3, May-Jun 63, pp 259-265.

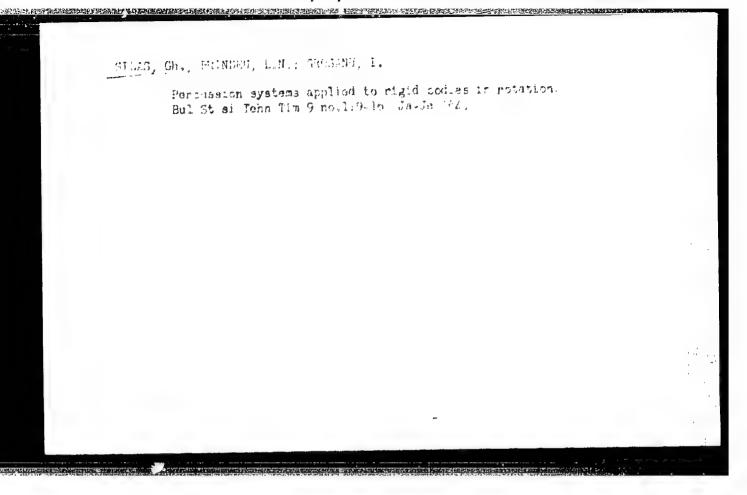
Abstract: Describes the two phases of the method, namely the preservation of the coprological material in a polyvinyl-alcohol fixator and its staining with trichrome. The materials and procedures used are discussed, and the advantages of the method are pointed out. includes 5 figures and 3 Western references.

1/1

CIA-RDP86-00513R001550530012-9" APPROVED FOR RELEASE: 08/23/2000

SILAS, Gh.; KIEPP, H.; GLIGOR, T.

Some properties of some plane motions. Bul St si Tehn Tim
8 no.1:37-42 Ja-Je '63.



Street, Sh., BRINGSM, L.M., KIZPP, H.I.

Setermining the conditions of contact with the friction of elastic bodies having asymmetric profiles. Bul 3t al Tehn Tim 9 no.1:17-22 Ja-Je '64.

SILAS, Gh.; PAUNESCU, M.; GROSANU, I.; BRINDEU, L.; GLIGOR, T.

Vibropercussor for driving elements into the ground. Bul St
si Tech Tim 9 no.2:321-329 J1-D '64.

SILAS, Co.; ERLUMEN, L; KLRPP, H.

Percussions applied to the free rigid body. Bul St si Tehn Tim
9 no.2:331-340 J1-0 '64.

MANGELON DOS SILAS, Gh., TUTUNGRU, D.

Third International Conference on the Machine and Mechanism Theory, September 4-8, 1963, Miskole, Hungary. Studit cere med apl 16 [i.e. 15] no.3:787-792 164.

L 04878-67 ENP(w) [JF(c) EM/WW	
ACC NR: AP6025069 S	OURCE CODE: RU/0019/66/011/002/0539/0552
AUTHOR: Silas, Gh.; Klepp, H. J.	22 B
ORG: Technical University, Timisoara (T	echnische Hochschule)
TITLE: Approximation method for studying	g nonlinear conservative oscillations
SOURCE: Revue Roumaine des sciences to no. 2, 1966, 539-552	echniques. Serie de mecanique appliquee, v. 11,
TOPIC TAGS: oscillating system, free os	cillation, nonlinear vibration, approximation method
described by the equation of motion q + N(divided into subregions, in each of which the bilinear characteristics. Properly selected as a properly selected to the bilinear characteristics in	proposed for studying oscillating systems that are q) = 0. In this method, the region of oscillations is he nonlinear characteristic N(q) is replaced by two ed, the latter form continuous polygons. The singu- each subregion is determined from the condition that
towers to the determination of the ampli	terms of energy. Application of the polygonal charac- tude and period of oscillations is shown to provide . The method is illustrated in application to systems
Card 1/2	UDC: 534

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	having the polynomial characteristics $N(q) = \sum_{i=1}^{m} a_i q^i$ and $N(q) = \pm a_n q ^n$. Orig. art. has: 4 tables and 26 formulas.	
	SUB CODE: 12,20/ SUBM DATE: 10May65/ ORIG REF: 002/ OTH REF: 006/ SOV REF: 009	
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1 San	Card 2/2	

SIZMSK / R DUNIAME (12 ch.); Given Names

Country: Yugoslavia

Academic Degrees: /not given/

Affiliation: Agricultural Enterprise (Poljoprivredno dobro), Vrsacki ritovi

Source: Belgrade, Veterinarski glasnik, No 6, 1961, pp 534-536.

"Cases of Cannibalism in Fowl on the Farm of the Agricultural Enterprise "Vrsacki Ritovi"."

Authors:

SILASKI, R. PAVLOVIC, R.

SILAVA, E.; PETERSONS, P., red.; DARZINA, V., tekhn. red.

[Fiftieth anniversary of the Bulduri Technical School of Fruit and Vegetable Growing] Bulduru darzkopibas tehnikuma 50 gad; monografija. Riga, Latvijas Valsts izdevnieciba, 1960. 120 p. (MIRA 14:12)

(Bulduri-Agricultural colleges)

VOLZHENSKIY, A.V., prof.; MOCHALOV, A.I., inzh.; BUROV, Yu.S., kand. tekhn.nauk; SILAYENKOV, Ye.S., inzh.

。 1985年,1986年,2016年,1987年,1986年,1986年,1986年,1986年,1987年,1987年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,19

Autoclaved concrete made with metallurgical slag and ash binders.

Bet. i zhel. -bet. no.8:322-325 Ag '57. (MIRA 10:10)

1.Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury (for Volzhenskiy)

(Concrete)

SILEVILLA, Ye.S., Send Sech Lei-(die) "Fried (ro. rafter of euto- clev condended for sent; on the base of ratellineric mote alago." Tee, 1987. The (And of Bellein) and Architecture USSR. Sci Rec Inct of Trilling & terials. Seberator, of Autoclev Silicate Paterials), 200 cories (11,45-58, 149)

VOLZHENSKIY, A., doktor tekhn.nauk; SILAYENKOV, Ye., inzh.

Behavior of steel reinforcements in slag-sand concrete products.

Stroi.mat. 4 no.10:30-31 0 158. (MIRA 11:11)

l. Deystwitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR. (for Volzhenskiy).

(Reinforced concrete)

VOLZHENSKIY, A.V. SILAYENKOV, Ye.S., inzh.

Deformation of fine grained autoclave hardened concretes caused by the change of their moisture content. Bet. i zhelhet. no.4:175-179 Ap *59. (MIRA 12:6)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy). (Concrete--Testing)

VOLZHENSKIY, A.V., prof.; SILAYENKOV, Ye.S., kand.tekhn.nauk; KHARIMA, T.V., insh.

Resistance of autoclave-hardened slag-sand materials subjected to the action of corrosive media. Stroi.mat. 5 no.11:32-34 N '59. (MIRA 13:3)

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(MIRA 14:5)

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(Concrete)

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Firtshing penels of exterior walls made of cellular concretes.

Na stroi. Ros. no.10:33-34 0 161. (MIRA 14:11)

(Concrete walls)

(Lightweight concrete)

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(Light/eight concrete)

PESHKOV, M., inzh.; SILAYENK)V, Ye., kand.tekhn.nauk; DESYATOV, V., i arkhitektor; GRISHKO, N., inzh.

Factory finishing of panels made of cellular concretes. Zhil. stroi. (MIRA 15:2)

(Facades) (Lightweight concrete)

SILAYENKOV, Ye.S., kand.tekhr.nauk; ZARIN, R.A., inzh.

Condition of roofs of industrial buildings made of autoclaved cellular concrete. Prom. stroi. 39 no.5:58-62 '61.

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(Roofs) (Lightweight concrete)

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Behavior of steel reinforcement in cellular concrete roofs of industrial buildings. Prom. stroi. 40 [i.e. 41] no.4:31-35 (MIRA 16:3) Ap '63.

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Fig. 2013. Fills, seems teading male; Fif digor, Giv., inch.

Det. 3 stife of cellular concrete on a bace of line and ash.

Short trid. Everd. natch.-issl. inst. postrot. no.10:135-153

163.

(MIRA 17:10)

STERVISHOW, Yo.S., kand. tokhn.mauk

[Exceptibility of large products made of autoclaved celliular concrete] Dolgovechnost' krupnorazzernykh izzerii iular concrete] Dolgovechnost' krupnorazzernykh izzerii iz artoklavnykh iacheistykh betonov. Koskva, Strelizert, (MER 17:9)

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EHIKHAREV, D., inshener; SILAYEV, A., kandidat tekhnicheskikh nauk.

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